



PCT09

RAW SEQUENCE LISTING

DATE: 02/13/2002

PATENT APPLICATION: US/09/869,198A

TIME: 18:51:01

Input Set : A:\seqlistJAB1463corrected.app.txt

Output Set: N:\CRF3\02132002\I869198A.raw

p.5

ENTERED

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3 <110> APPLICANT: Gordon, Robert
4     Sprengel, Jorg
5     Yon, Jeffrey
6     Dijkmans, Josiena
7     Gosiewska, Anna
8     Dhanaraj, Sridevi
9     Xu, Jean
11 <120> TITLE OF INVENTION: Vascular Endothelial Growth Factor-X
13 <130> FILE REFERENCE: 51935/004
15 <140> CURRENT APPLICATION NUMBER: US/09/869,198A
16 <141> CURRENT FILING DATE: 2001-06-21
18 <150> PRIOR APPLICATION NUMBER: GB 9828377.3
19 <151> PRIOR FILING DATE: 1998-12-22
21 <150> PRIOR APPLICATION NUMBER: US 60/124,967
22 <151> PRIOR FILING DATE: 1999-03-18
24 <150> PRIOR APPLICATION NUMBER: US 60/164,131
25 <151> PRIOR FILING DATE: 1999-11-08
27 <160> NUMBER OF SEQ ID NOS: 97
29 <170> SOFTWARE: PatentIn Ver. 2.0
31 <210> SEQ ID NO: 1
32 <211> LENGTH: 323
33 <212> TYPE: PRT
34 <213> ORGANISM: Homo sapiens
36 <400> SEQUENCE: 1
37 Glu Ser Asn Leu Ser Ser Lys Phe Gln Phe Ser Ser Asn Lys Glu Gln
38 1 5 10 15
40 Tyr Gly Val Gln Asp Pro Gln His Glu Arg Ile Ile Thr Val Ser Thr
41 20 25 30
43 Asn Gly Ser Ile His Ser Pro Arg Phe Pro His Thr Tyr Pro Arg Asn
44 35 40 45
46 Thr Val Leu Val Trp Arg Leu Val Ala Val Glu Glu Asn Val Trp Ile
47 50 55 60
49 Gln Leu Thr Phe Asp Glu Arg Phe Gly Leu Glu Asp Pro Glu Asp Asp
50 65 70 75 80
52 Ile Cys Lys Tyr Asp Phe Val Glu Val Glu Glu Pro Ser Asp Gly Thr
53 85 90 95
55 Ile Leu Gly Arg Trp Cys Gly Ser Gly Thr Val Pro Gly Lys Gln Ile
56 100 105 110
58 Ser Lys Gly Asn Gln Ile Arg Ile Arg Phe Val Ser Asp Glu Tyr Phe
59 115 120 125
61 Pro Ser Glu Pro Gly Phe Cys Ile His Tyr Asn Ile Val Met Pro Gln
62 130 135 140
64 Phe Thr Glu Ala Val Ser Pro Ser Val Leu Pro Pro Ser Ala Leu Pro

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65 145          150          155          160
67 Leu Asp Leu Leu Asn Asn Ala Ile Thr Ala Phe Ser Thr Leu Glu Asp
68          165          170          175
70 Leu Ile Arg Tyr Leu Glu Pro Glu Arg Trp Gln Leu Asp Leu Glu Asp
71          180          185          190
73 Leu Tyr Arg Pro Thr Trp Gln Leu Leu Gly Lys Ala Phe Val Phe Gly
74          195          200          205
76 Arg Lys Ser Arg Val Val Asp Leu Asn Leu Leu Thr Glu Glu Val Arg
77          210          215          220
79 Leu Tyr Ser Cys Thr Pro Arg Asn Phe Ser Val Ser Ile Arg Glu Glu
80 225          230          235          240
82 Leu Lys Arg Thr Asp Thr Ile Phe Trp Pro Gly Cys Leu Leu Val Lys
83          245          250          255
85 Arg Cys Gly Gly Asn Cys Ala Cys Cys Leu His Asn Cys Asn Glu Cys
86          260          265          270
88 Gln Cys Val Pro Ser Lys Val Thr Lys Lys Tyr His Glu Val Leu Gln
89          275          280          285
91 Leu Arg Pro Lys Thr Gly Val Arg Gly Leu His Lys Ser Leu Thr Asp
92          290          295          300
94 Val Ala Leu Glu His His Glu Glu Cys Asp Cys Val Cys Arg Gly Ser
95 305          310          315          320
97 Thr Gly Gly
101 <210> SEQ ID NO: 2
102 <211> LENGTH: 345
103 <212> TYPE: PRT
104 <213> ORGANISM: Homo sapiens
106 <400> SEQUENCE: 2
107 Met Ser Leu Phe Gly Leu Leu Leu Leu Thr Ser Ala Leu Ala Gly Gln
108 1 5 10 15
110 Arg Gln Gly Thr Gln Ala Glu Ser Asn Leu Ser Ser Lys Phe Gln Phe
111 20 25 30
113 Ser Ser Asn Lys Glu Gln Tyr Gly Val Gln Asp Pro Gln His Glu Arg
114 35 40 45
116 Ile Ile Thr Val Ser Thr Asn Gly Ser Ile His Ser Pro Arg Phe Pro
117 50 55 60
119 His Thr Tyr Pro Arg Asn Thr Val Leu Val Trp Arg Leu Val Ala Val
120 65 70 75 80
122 Glu Glu Asn Val Trp Ile Gln Leu Thr Phe Asp Glu Arg Phe Gly Leu
123 85 90 95
125 Glu Asp Pro Glu Asp Asp Ile Cys Lys Tyr Asp Phe Val Glu Val Glu
126 100 105 110
128 Glu Pro Ser Asp Gly Thr Ile Leu Gly Arg Trp Cys Gly Ser Gly Thr
129 115 120 125
131 Val Pro Gly Lys Gln Ile Ser Lys Gly Asn Gln Ile Arg Ile Arg Phe
132 130 135 140
134 Val Ser Asp Glu Tyr Phe Pro Ser Glu Pro Gly Phe Cys Ile His Tyr
135 145 150 155 160
137 Asn Ile Val Met Pro Gln Phe Thr Glu Ala Val Ser Pro Ser Val Leu
138 165 170 175

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140 Pro Pro Ser Ala Leu Pro Leu Asp Leu Leu Asn Asn Ala Ile Thr Ala
 141 180 185 190
 143 Phe Ser Thr Leu Glu Asp Leu Ile Arg Tyr Leu Glu Pro Glu Arg Trp
 144 195 200 205
 146 Gln Leu Asp Leu Glu Asp Leu Tyr Arg Pro Thr Trp Gln Leu Leu Gly
 147 210 215 220
 149 Lys Ala Phe Val Phe Gly Arg Lys Ser Arg Val Val Asp Leu Asn Leu
 150 225 230 235 240
 152 Leu Thr Glu Glu Val Arg Leu Tyr Ser Cys Thr Pro Arg Asn Phe Ser
 153 245 250 255
 155 Val Ser Ile Arg Glu Glu Leu Lys Arg Thr Asp Thr Ile Phe Trp Pro
 156 260 265 270
 158 Gly Cys Leu Leu Val Lys Arg Cys Gly Gly Asn Cys Ala Cys Cys Leu
 159 275 280 285
 161 His Asn Cys Asn Glu Cys Gln Cys Val Pro Ser Lys Val Thr Lys Lys
 162 290 295 300
 164 Tyr His Glu Val Leu Gln Leu Arg Pro Lys Thr Gly Val Arg Gly Leu
 165 305 310 315 320
 167 His Lys Ser Leu Thr Asp Val Ala Leu Glu His His Glu Glu Cys Asp
 168 325 330 335
 170 Cys Val Cys Arg Gly Ser Thr Gly Gly
 171 340 345

174 <210> SEQ ID NO: 3

175 <211> LENGTH: 1035

176 <212> TYPE: DNA

177 <213> ORGANISM: Homo sapiens

179 <400> SEQUENCE: 3

180 atgagcctct tggggttct cctgctgaca tctgccctgg ccggccagag acaggggact 60
 181 caggcggaat ccaacctgag tagtaaatc cagttttcca gcaacaagga acagaacgga 120
 182 gtacaagatc ctccagcatga gagaattatt actgtgtcta ctaatggaag tattcacagc 180
 183 ccaagggttc ctccatactta tccaagaaat acggtcttgg tatggagatt agtagcagta 240
 184 gaggaaaatg tatggataca acttacgttt gatgaaagat ttgggcttga agaccagaa 300
 185 gatgacatat gcaagtatga tttgtagaa gttgaggaac ccagtgatgg aactatatta 360
 186 gggcgctggg gtggttctgg tactgtacca ggaaaacaga tttctaaagg aaatcaaatt 420
 187 aggataagat ttgtatctga tgaatatttt ccttctgaac cagggttctg catccactac 480
 188 aacattgtca tgccacaatt cacagaagct gtgagtcctt cagtgtacc cccttcagct 540
 189 ttgccactgg acctgcttaa taatgctata actgccttta gtaccttga agaccttatt 600
 190 cgatatcttg aaccagagag atggcagttg gacttagaag atctatatag gccaaacttg 660
 191 caacttcttg gcaaggcttt tgttttggga agaaaatcca gagtggtgga tctgaacctt 720
 192 ctaacagagg aggtaagatt atacagctgc acacctcgta acttctcagt gtccataagg 780
 193 gaagaactaa agagaaccga taccattttc tggccagggt gtctcctggg taaacgctgt 840
 194 ggtgggaact gtgctgtttg tctccacaat tgcaatgaat gtcaatgtgt cccaagcaaa 900
 195 gttactaaaa aataccacga ggtccttcag ttgagaccaa agaccggtgt caggggattg 960
 196 cacaaatcac tcaccgacgt ggccttgag caccatgagg agtgtgactg tgtgtgcaga 1020
 197 gggagcacag gagga 1035

199 <210> SEQ ID NO: 4

200 <211> LENGTH: 22

201 <212> TYPE: DNA

202 <213> ORGANISM: Artificial Sequence

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204 <220> FEATURE:
205 <223> OTHER INFORMATION: Description of Artificial Sequence: primer
207 <400> SEQUENCE: 4
208 aaaatgtatg gatacaactt ac 22
210 <210> SEQ ID NO: 5
211 <211> LENGTH: 23
212 <212> TYPE: DNA
213 <213> ORGANISM: Artificial Sequence
215 <220> FEATURE:
216 <223> OTHER INFORMATION: Description of Artificial Sequence: primer
218 <400> SEQUENCE: 5
219 gtttcatgaa agatttgggc ttg 23
221 <210> SEQ ID NO: 6
222 <211> LENGTH: 22
223 <212> TYPE: DNA
224 <213> ORGANISM: Artificial Sequence
226 <220> FEATURE:
227 <223> OTHER INFORMATION: Description of Artificial Sequence: primer
229 <400> SEQUENCE: 6
230 tttctaaagg aaatcaaatt ag 22
232 <210> SEQ ID NO: 7
233 <211> LENGTH: 20
234 <212> TYPE: DNA
235 <213> ORGANISM: Artificial Sequence
237 <220> FEATURE:
238 <223> OTHER INFORMATION: Description of Artificial Sequence: primer
240 <400> SEQUENCE: 7
241 gataagattt gtatctgatg 20
243 <210> SEQ ID NO: 8
244 <211> LENGTH: 17
245 <212> TYPE: DNA
246 <213> ORGANISM: Artificial Sequence
248 <220> FEATURE:
249 <223> OTHER INFORMATION: Description of Artificial Sequence: primer
251 <400> SEQUENCE: 8
252 gatgtctcct ctttcag 17
254 <210> SEQ ID NO: 9
255 <211> LENGTH: 18
256 <212> TYPE: DNA
257 <213> ORGANISM: Artificial Sequence
259 <220> FEATURE:
260 <223> OTHER INFORMATION: Description of Artificial Sequence: primer
262 <400> SEQUENCE: 9
263 gcacaactcc taattctg 18
265 <210> SEQ ID NO: 10
266 <211> LENGTH: 18
267 <212> TYPE: DNA
268 <213> ORGANISM: Artificial Sequence
270 <220> FEATURE:

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271 <223> OTHER INFORMATION: Description of Artificial Sequence: primer
273 <400> SEQUENCE: 10
274 agcacctgat tccgttgc 18
276 <210> SEQ ID NO: 11
277 <211> LENGTH: 20
278 <212> TYPE: DNA
279 <213> ORGANISM: Artificial Sequence
281 <220> FEATURE:
282 <223> OTHER INFORMATION: Description of Artificial Sequence: primer
284 <400> SEQUENCE: 11
285 tagtacatag aatgttctgg 20
287 <210> SEQ ID NO: 12
288 <211> LENGTH: 19
289 <212> TYPE: DNA
290 <213> ORGANISM: Artificial Sequence
292 <220> FEATURE:
293 <223> OTHER INFORMATION: Description of Artificial Sequence: primer
295 <400> SEQUENCE: 12
296 aagagacata cttctgtac 19
298 <210> SEQ ID NO: 13
299 <211> LENGTH: 21
300 <212> TYPE: DNA
301 <213> ORGANISM: Artificial Sequence
303 <220> FEATURE:
304 <223> OTHER INFORMATION: Description of Artificial Sequence:primer
306 <400> SEQUENCE: 13
307 ccaggtacaa taagtgaact g 21
309 <210> SEQ ID NO: 14
310 <211> LENGTH: 28
311 <212> TYPE: DNA
312 <213> ORGANISM: Artificial Sequence
314 <220> FEATURE:
315 <223> OTHER INFORMATION: Description of Artificial Sequence:primer
317 <400> SEQUENCE: 14
318 ccttttagaaa tctgttttcc tggtag 28
320 <210> SEQ ID NO: 15
321 <211> LENGTH: 31
322 <212> TYPE: DNA
323 <213> ORGANISM: Artificial Sequence
325 <220> FEATURE:
326 <223> OTHER INFORMATION: Description of Artificial Sequence:primer
328 <400> SEQUENCE: 15
329 ggaaaatatt catcagatac aaatcttatc c 31
331 <210> SEQ ID NO: 16
332 <211> LENGTH: 22
333 <212> TYPE: DNA
334 <213> ORGANISM: Artificial Sequence
336 <220> FEATURE:
337 <223> OTHER INFORMATION: Description of Artificial Sequence:primer

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Use of n and / or Xaa has been detected in the Sequence Listing. Review the Sequence Listing to ensure a corresponding explanation is present in the <220> to <223> fields of each sequence using n or Xaa.

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Input Set : A:\seqlistJAB1463corrected.app.txt

Output Set: N:\CRF3\02132002\I869198A.raw

L:568 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:30
L:572 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:30
L:577 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:30
L:581 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:30
L:622 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:33
L:630 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:33
L:701 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:38
L:705 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:38
L:709 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:38
L:713 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:38
L:715 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:38
L:743 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:40
L:747 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:40
L:751 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:40
L:756 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:40
L:757 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:40
L:759 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:40
L:800 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:43
L:804 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:43
L:808 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:43
L:812 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:43
L:819 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:43
L:820 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:43
L:831 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:44
L:835 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:44
L:839 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:44
L:843 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:44
L:847 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:44
L:851 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:44
L:855 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:44
L:859 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:44
L:863 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:44
L:867 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:44
L:873 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:44
L:874 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:44
L:875 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:44
L:876 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:44
L:887 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:45
L:891 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:45
L:895 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:45
L:903 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:45
L:904 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:45
L:929 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:47
L:933 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:47
L:962 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:49
L:966 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:49
L:971 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:49
L:975 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:49

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L:1001 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:51
L:1005 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:51
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L:1013 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:51
L:1055 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:54
L:1063 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:54
L:1164 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:61
L:1168 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:61
L:1172 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:61
L:1177 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:61
L:1179 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:61
L:1192 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:62
L:1196 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:62
L:1200 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:62
L:1204 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:62
L:1215 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:63
L:1223 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:63
L:1279 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:67
L:1283 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:67
L:1289 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:67
L:1291 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:67
L:1303 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:68
L:1307 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:68
L:1311 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:68
L:1315 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:68
L:1316 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:68
L:1318 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:68
L:1373 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:72
L:1377 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:72
L:1391 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:73
L:1395 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:73
L:1425 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:75
L:1429 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:75
L:1433 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:75
L:1437 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:75
L:1445 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:75
L:1446 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:75
L:1457 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:76
L:1468 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:76
L:1523 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:77
L:1524 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:77
L:1525 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:77
L:1526 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:77
L:1547 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:78
L:1548 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:78
L:1569 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:79
L:1601 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:80
L:1602 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:80
L:1605 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:80

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L:1622 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:81

L:1623 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:81

L:1665 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:83